

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	444649	relay	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 12:14
S3	24156	S2 and (redundan\$3 backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 09:29
S5	171	S3 and (Control\$4 adj Area adj Network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 12:02
S6	2731	307/10.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/15 14:09
S7	2010636	(redundan\$3 backup multiple)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 09:52
S8	480502	S7 with (drive\$2 control\$3 proces\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 09:30
S9	923	S8 and (Control\$4 adj Area adj Network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 09:34
S10	444875	relay	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 09:31

## EAST Search History

S11	24207	S10 and (redundan\$3 backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 09:31
S12	171	S11 and (Control\$4 adj Area adj Network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 09:31
S14	545692	(monitor\$4 detect\$4 sens\$4) with voltage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 13:59
S15	40560	S8 and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 09:34
S16	286	S15 and (Control\$4 adj Area adj Network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 09:35
S17	197	S16 not S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 09:35
S18	33	("3915747"   "4198678"   "4521871"   "4642753"   "4745542"   "4747041"   "4958270"   "4962462"   "4972290"   "5001641"   "5074626"   "5107425"   "5136511"   "5193887"   "5233538"   "5247454"   "5265944"   "5394852"   "5406485"   "5490072"   "5511223"   "5631532"   "5677073"   "5684702"   "5784547"   "5862502"   "5941966"   "5955859"   "6002970"   "6061601"   "6122713"   "6201997"   "6243629").PN. OR ("6604006"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/16 09:57

## EAST Search History

S19	4	((("5903565") or ("5534848"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 10:24
S20	0	DE19946993	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 10:24
S21	0	DE19946993A1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 10:24
S22	1	"19946993"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 10:25
S23	13	"1216550"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 10:26
S24	42	"0124013"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 10:27
S25	2	"2001216550"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 10:26
S26	2	"200124013"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 11:47

## EAST Search History

S27	1706	701/29.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 11:48
S29	242	S27 and relay	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 15:14
S30	143	sequential same (triple third) same redundan\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 13:34
S31	362	sequential\$4 same (triple third) same redundan\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 13:54
S32	86	S31 same (switch\$3 relay\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 13:34
S33	45	sequential\$4 with (triple third) with redundan\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 14:01
S34	1508	sequential\$4 with redundan\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 14:03
S35	9	S34 same relay\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 13:57

## EAST Search History

S36	1	S34 and (Control\$4 adj Area adj Network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 13:58
S37	195	S34 and (monitor\$4 detect\$4 sens\$4) with voltage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 14:01
S38	5868	(triple third) with redundan\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 14:31
S39	821	S38 and (monitor\$4 detect\$4 sens\$4) with voltage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 14:02
S40	670	S39 and switch\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 14:03
S41	290	S40 and sequential\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 14:03

## EAST Search History

S42	107	("3377623"   "3593307"   "3636331"   "3665173"   "3681578"   "3735356"   "3783250"   "3845356"   "3895223"   "3898621"   "3921149"   "4015246"   "4032757"   "4049957"   "4099234"   "4101958"   "4105900"   "4133027"   "4153198"   "4159444"   "4198678"   "4228496"   "4251873"   "4270168"   "4270715"   "4271505"   "4276648"   "4277832"   "4304001"   "4342083"   "4345327"   "4347563"   "4347564"   "4352103"   "4356546"   "4358823"   "4371754"   "4375683"   "4392199"   "4412280"   "4424559"   "4443861"   "4472806"   "4517639"   "4517673"   "4530045"   "4532630"   "4562575"   "4580248"   "4583224"   "4610013"   "4616312"   "4617475"   "4622667"   "4631693"   "4634110"   "4635184"   "4639852"   "4644538"   "4656475"   "4663704"   "4665522"   "4667284"   "4672530"   "4683105"   "4685053"   "4692932"   "4695952"   "4713832"   "4726026"   "4748594"   "4752869"   "4774709"   "4794601"   "4797884"   "4799140"   "4817091"   "4823256"   "4841232"   "4858101"   "4868826"   "4868851"   "4872106"   "4872213"   "4897640"   "4916612"   "4916695"   "4926364"   "4933940"   "4955020"   "4958270"   "4959768"   "4965745"   "4967347"   "4975931"   "4995040"   "4998194"   "5008805"   "5271023"   "5276823"   "5442620"   "5452443"   "Re33521").PN. OR ("6061809"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/16 14:11
S43	158	S38 with voltage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 14:33

## EAST Search History

S44	45	S43 same (switch\$3 relay\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 14:33
S45	20	("4516076"   "4526401"   "4621833"   "4624477"   "4629212"   "4648622"   "4655440"   "4666180"   "4673194"   "4691284"   "4700303"   "4714271"   "4718695"   "4763222"   "4789935"   "4805923"   "4827416").PN. OR ("5120982").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/16 15:12
S46	585	701/33.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 16:17
S47	1367	361/187.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 16:33
S48	141814	(actuat\$4 relay\$3 switch\$4 driv\$4) with (fail\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 16:53
S49	54815	S48 and (third triple)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 16:53
S50	8387	S48 same (third triple)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 16:36
S51	42601	(actuator relay switch driver) with (fail failed fails)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 16:53

## EAST Search History

S52	2992	S51 same (third triple)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 16:54
S53	662	S52 same voltage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 16:54
S54	11	S53 same (redundan\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 17:06
S55	757	361/191.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 17:19
S56	0	sequential\$3 with redundan\$4 with relay	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 17:20
S57	0	sequential\$4 with redundant\$4 with relay	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 17:21
S58	27	sequential\$4 with redundant\$4 with switch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 17:24
S59	6	S58 and (vehicle relay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 17:21



## EAST Search History

S60	732	redundant\$4 with relay	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 17:25
S61	213	S60 same (fail\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 17:25
S62	119	S60 same voltage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 09:20
S63	5	"1360270"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 09:20
S64	364	340/3.41-3.44.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 09:48
S65	85	340/3.22.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 09:49
S66	754	180/280.ccls. 180/279.ccls. 180/285.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 09:50
S67	25	S66 and relay and voltage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 09:50

## EAST Search History

S68	1088	307/9.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 09:52
S69	8	S68 and (redundan\$4 same (voltage power) same (switch relay))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 09:52
S70	79	triple with redundan\$4 with (power voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 10:39
S72	41	vehicle and (redundan\$4 with (power voltage) with relay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 11:13
S73	18	sequential with redundan\$4 with (switch relay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 11:13
S74	40	sequential\$3 with redundan\$4 with (switch relay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 11:38
S75	9	redundan\$4 with (power voltage) with (switch realy) same vehicle same (safe\$4 critical\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 11:41
S76	3	("6501196").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 12:02

## EAST Search History

S77	9	("5739594"   "5770897"   "5939802"   "6011327"   "6031298"   "6163088"   "6330176").PN. OR ("6501196").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 11:42
S78	93	(Control\$4 adj Area adj Network) and ((power voltage) with relay) and vehicle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 12:04
S79	57	S78 and (redundan\$4 safe\$3 backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 12:12
S81	213	actuator with relay with (power voltage) same vehicle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 13:10
S82	22	(microprocessor processor controller) with relay with (power voltage) and vehicle and (control\$4 adj area adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 13:16